DEBURR

Memo

110

110

Quality Control

QC2- Inspect parts off machine FAI/FAIB

Work Order October-07-13 9:0		8034		*10	80)34*					. man .	Page 1
Revision ID: Item Name: Bu	shing /07/13 /07/13	Start Qty: 40.00 Req'd Qty: 40.00	*40* *40*	Accept	•	*N9000 Cust Item II Customer:		100)* S	etup Start Stop	1 72 -	S1* S2*
	rocess Pla	an: MUS	Date: 13-10-08				te:		R	un Star Stop	"IV	R1* R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hour	s	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Rev	vision Nbr										
D4021	В	;										
*100 *100* Hardinge Hardinge CNC Lathe S	mall	DWG REV: FOLIO REV		WG D4021)AS 44 9-89	13/10/23			40			

0.00

0.00

OAS 44 9-89 13/10/23

											DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER NON-O	COI	NFORM	MANCE / UP	DATE			
											QA Closed:	Date	
Work Ord	er.					DISPOSITION				AGAINST DE	PARTMENT,	/PROCESS	
Part NCR	No.					Rework Scrap Use-as-is Work Order Update			Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite			Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root	Т		1		Descri	ption of work order update		Initial	^^	tion	Sign &		
Cause		Date	Step	Qty		or Non-conformance	ı	nief Eng]	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved						F		T CATE					
Landi	ing G	iear				General	701	- CATE	3011				
Carto		Bending Centre No Cracks Crushed/ Cuffs Heat Trea Inspectio Ripples in	Crimped. at n Strip in a Bend	Tube		Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Instruct Mainte Mislabe Misread Offset	ion Incomplete cions Incomplete/ enance eled d	'Unclear	Ovalized Over/Under Part Incorre Part Lost/M Part Moved Positioned \(\) Power Loss/	ct sissing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
ŀ	Torque Waves in Extrusion					Drawing		Out of (Calibration				

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Orde October-07-13 9		8034		*108	8034*					·		Page 2
Revision ID:	D4021-9 Bushing			Accept	*N900	040	100)* s	etup	Start Stop		S1* S2*
	10/07/13 10/07/13	Start Qty: 40.00 Req'd Qty: 40.00	*40 *40		Cust Item I	D:						
Approvals:	Process Pla	in:	Date:	Tooling:	Da	nte:		R		Start	*N	R1*
	QC:		Date:	SPC (Y/N):	Da	ate:				Stop	*N	R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
120 *170* QC Quality Control		QC8- Inspect parts - secon	nd check	0.00	13-10-2	3		40	þ) ————		13 289
130 *120* Packaging		Identify as per dwg & Sto	ck Location: WAC	0.00				40>		AS /	3-10-	-23

0.00

0.00

Packaging

Quality Control

140

QC21- Final Inspection - Work Order Release

Memo

AJ/M3-10-23 NB-10-23

												DQA:	Dat	te:	
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFORM	/ANCE / UP	DATE		·			
							,	_			QA	Closed:	Dat	te:	- <u> </u>
Work Ord	er.	•				DISPOSITION				AGAINST D	EPAF	RTMENT	PROCESS		
Part No. NCR No.						Rework Scrap Use-as-is Work Order Update			Skid-tube Crosstube Machining Small Fab Thermoforming Finishing Large Fab Composite			Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier			Engineering Quality Other
Root					Descri	ption of work order update	T^{\dagger}	Initial	Ac	ction	5	Sign &			
Cause		Date	Step	Qty	Ċ	or Non-conformance	Ch	nief Eng	Desc	cription	l l	Date	Verification	n	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved															
1							AUL	LT CATE	SORY						
Landi	Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube				D/S	General Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short		Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread			Ov Pai Pai Pai	ralized rer/Under rt Incorred rt Lost/Mi rt Moved sitioned V wer Loss/	ssing		Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other
		Ripples in	Bend		1	Drill Holes	1	Offset							

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Picklist Print

October-07-13 9:07:01 AM

Work Order ID:

108034

Parent Item:

D4021-9

Parent Item Name:

Bushing

Start Date: 10/07/13

Required Date: 10/07/13

Start Qty: 40.00

Required Qty: 40.00

Comments:

IPP REV:A NEW ISSUE 09-11-23 JLM VERIFIED BY:DD IPP Rev:B as per dwg REV.A DD 10.02.22 verified by:EC IPP Rev:C as per dwg revB DD 10.04.20 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measur	Qty on e Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304R0.375 304 ROUND BAR 0.375		Purchased	No				f	73.9270	Marie	3.32			
				Location		Loc Oty]	Loc Code					
				MAT029		73.927							
				125	585	1.364							
				Mi	26153	0.563						1 / -	_
				M1	27015	72			_3,	32	13 July 13	110/2	3 -

Page 1

												DQA:	Da	ite: _	
NCR:	es /	No				WORK ORDER NON-O	CO	VFORM	//ANCE / UP	DATE					
												QA Closed:	Da	ite:	
Work Orde	ar.					DISPOSITION				AGAINST [)E	PARTMENT/	PROCESS		
Part No						Rework Scrap Use-as-is Work Order Update	Scrap Machining Small Fab Use-as-is Thermoforming Finishing			Crosstube Small Fab Finishing Composite	Prod. Eng. Coor. Rec/Store/Packaging				Engineering Quality Other
Root	İ				t	ption of work order update	1	Initial	Ac	tion		Sign &			
Cause	D	ate	Step	Qty	-	or Non-conformance	Ch	ief Eng	Desc	ription		Date	Verification	n	QC Inspector
Doc/Data				,							ļ			I	
Equip/Tooling	Ш														
Operator															
Material															
Setup											i				
Other	Ш														
Process															
Supplier										•					
Training															
Unapproved								:							
						F	AUL	T CATE	GORY			,			
Landi	ng Gear					General		_		_		_		_	
	Ben	ding				Bend		Grain				Ovalized			Pressure/Forced
	Cer	itre No	t Concer	ntric to	o/s	BOM/Route		Hardwa	re			Over/Under	tolerance		Temperature/Cure
Cracks					Broken/Damaged		Inspecti	on Incomplete			Part Incorred	ct		Weld	
Crushed/Crimped.					Burrs		Instruct	ions Incomplete/	/Unclear		Part Lost/Mi	issing		Wrong Stock Pulled	
Cuffs					Contamination		Maintenance				Part Moved			-	

Out of Calibration

Out of Sequence

Outside Dimensions

Mislabeled

Misread

Offset

Part Moved

Positioned Wrong

Power Loss/Surge

Other

Contamination

Countersink

Cut Too Short

Drill Holes

Drawing

Finish

Folio

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

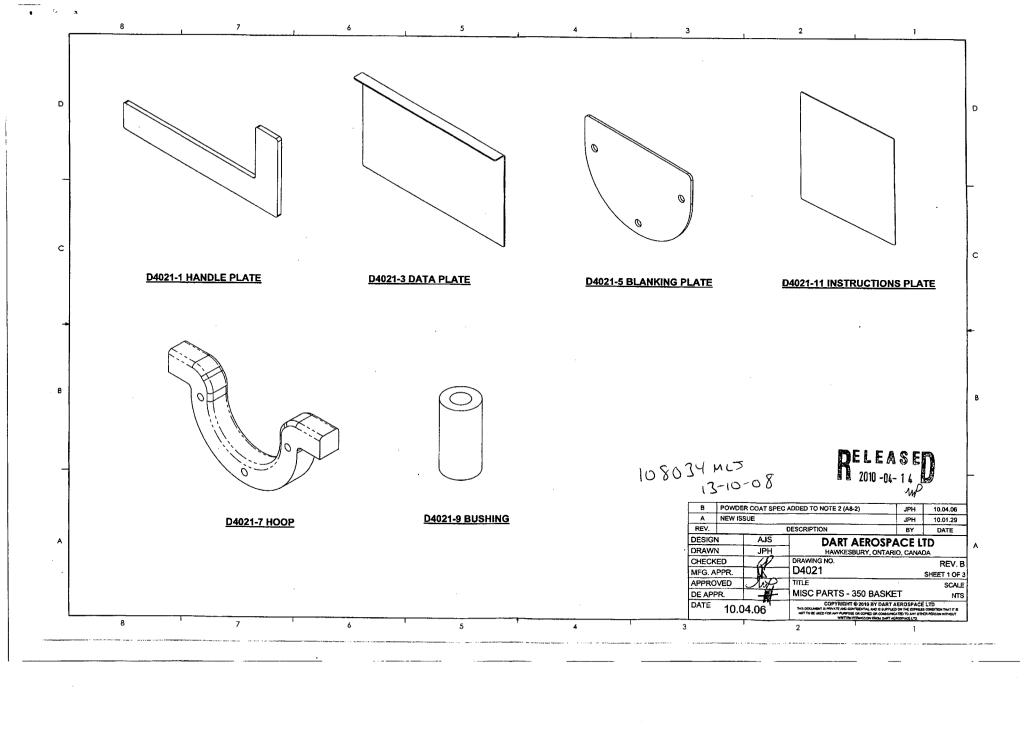
H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

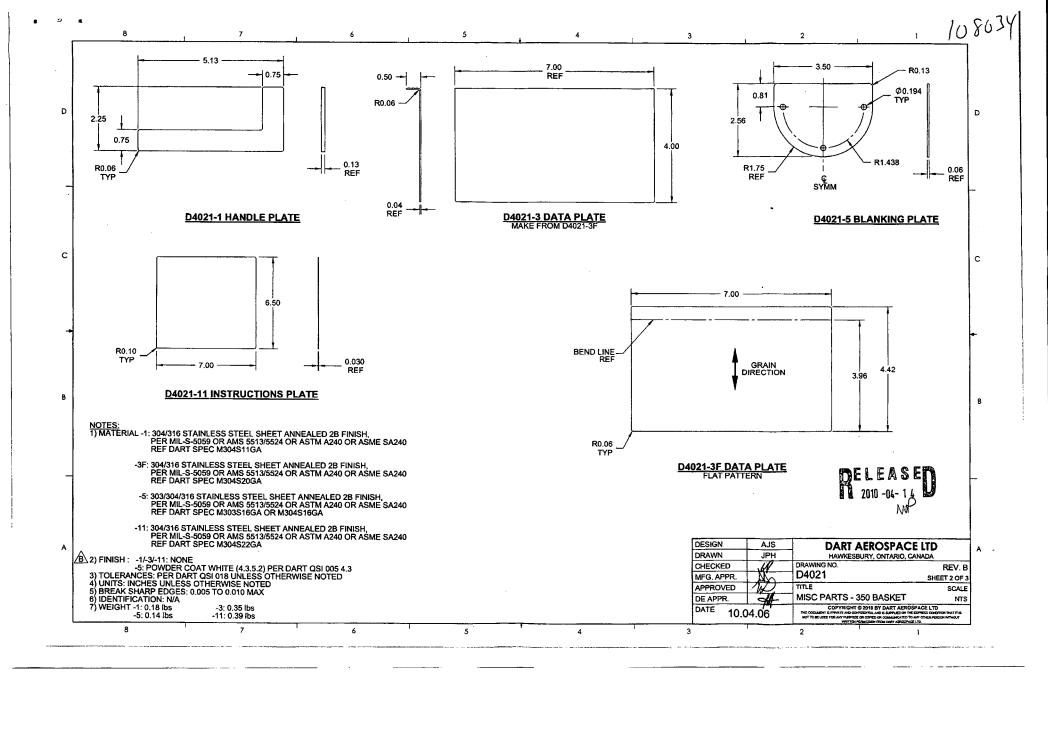
DART AEROSPACE LTD	Work Order:	108034
Description: Bushing	Part Number:	D4021-9
Inspection Dwg: D4021 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

	FIRST ARTICLE INSPECTION CHECKLIST										
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments					
Ø0.191	+0.005/-0.001	. 191	7		FK-04	Vern-					
0.38	+/-0.030	.191			tı .	11					
0.75	+/-0.030	.433			į i	li .					
				_							
				,							
					·						
					-						
	V.S.	T	Da	0	Dualine's and	\					
Measured by:	3110/23	Audited by:	(0"(17"		Preliminary Approval:						
Date: \	3/10/23	Date:	3-10-	23	Date:						
					5	-dt- Annuariad					

Rev	Date	Change	Revised by	<i>ι</i> Δ	Approved
Α	10.06.08	New Issue	KJ 9	XX	M
				75	





8 D D Ø0.191 -Ø0.38 5.00 R0.50 2.25 R0.10 2 PL 0.63⁺0.00 -0.05 45° 0.813 ==== С R1.125 REF 2.56 Ø0.194 REF 0.75 R1.438 R1.75 -0.63^{+0.00} **D4021-9 BUSHING** 2.500 **D4021-7 HOOP** NOTES: 1) MATERIAL-7: 304/316 STAINLESS STEEL BAR, PER ASTM A276 REF DART SPEC M304B -9: 304/316 STAINLESS STEEL ROUND BAR, PER ASTM A276 REF DART SPEC M304R DESIGN AJS DART AEROSPACE LTD REF DART SPEC M304R

2) FINISH: NONE

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: N/A

7) WEIGHT -7: 0.80 lbs

-9: 0.02 lbs DRAWN JPH HAWKESBURY, ONTARIO, CANADA CHECKED DRAWING NO. REV. B D4021 MFG. APPR. SHEET 3 OF 3 APPROVED TITLE SCALE MISC PARTS - 350 BASKET DE APPR. NTS COPYRIGHT @ 2010 BY DART AEROSPACE LTD DATE 10.04.06 8 . 5